

and replace the transmission shaft if worn to the service limit dimension or less.

CLUTCH LIFTING MECHANISM

The clutch lifting mechanism is located within the right-hand crankcase cover. When the gearshift lever is moved to shift gears, it also activates the clutch lifting mechanism releasing the clutch.

The clutch lifting mechanism can be removed with the engine in the frame.

Removal/Disassembly

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Refer to **Figure 39** for this procedure.

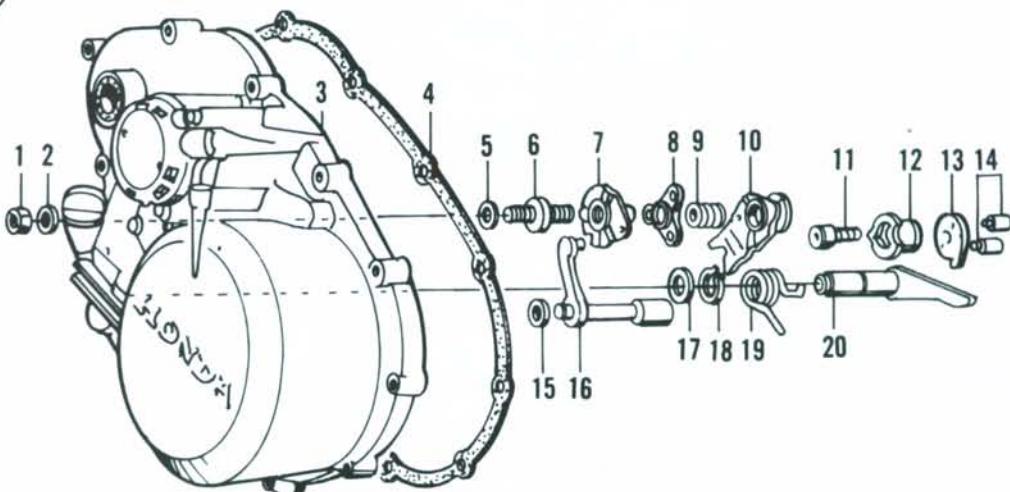
1. Place the vehicle on level ground and set the parking brake.
2. Remove the right-hand crankcase cover as described in Chapter Four.
3. Remove the clutch lifter assembly (A, **Figure 40**) from the manual clutch.
4. Remove the clutch lever and washer (B, **Figure 40**) from the crankcase.
5. From the inside of the right-hand crankcase cover, remove clutch lifter.
6. From the outside of the right-hand crankcase cover, remove the adjusting screw locknut and washer (**Figure 41**).

Inspection

1. Clean all parts in solvent and thoroughly dry with compressed air.
2. Inspect the balls (**Figure 42**) in the ball retainer. They must rotate freely in the ball retainer but not so loose that they would fall out. Check the balls for evidence of wear, pitting or excessive heat (bluish tint). Replace if necessary.
3. Inspect the grooves and inside surface of both the clutch lifter cam and clutch lifter where the balls ride (**Figure 43**). All surfaces must be smooth and free of burrs or scoring. Replace as necessary.
4. Check the locating notches on both the clutch lifter cam and clutch lifter. They must fit snugly onto their respective locators in the engine. Check for cracks in the corners of the notches. Replace as necessary.

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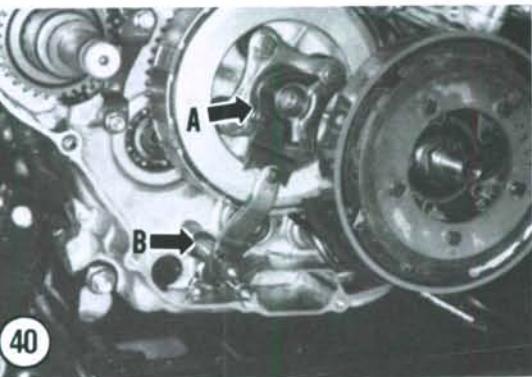
RIGHT-HAND CRANKCASE COVER



1. Locknut
2. Washer
3. Right-hand crankcase cover
4. Gasket
5. O-ring
6. Adjusting screw
7. Clutch shifter cam

8. Ball retainer
9. Spring
10. Lifter cam
11. Allen bolt
12. Neutral switch motor
13. Reverse stopper cam
14. Pins

15. Washer
16. Clutch lifter
17. Washer
18. Circlip
19. Return spring
20. Reverse stopper shaft



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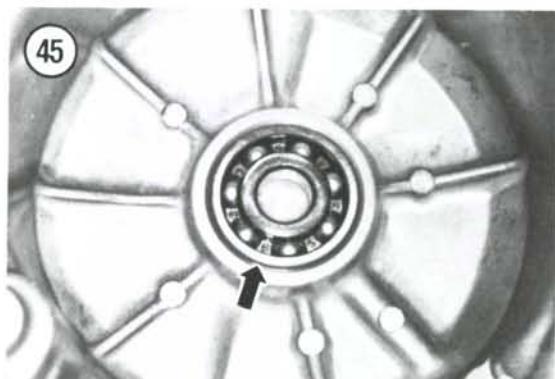


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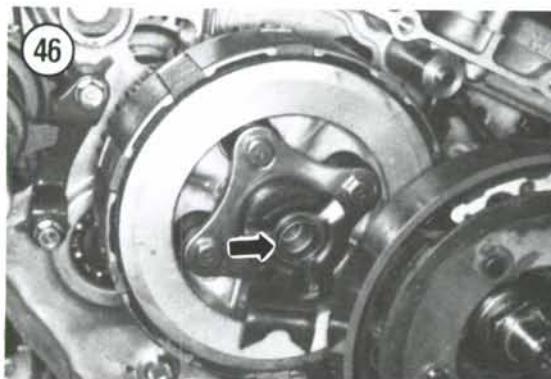
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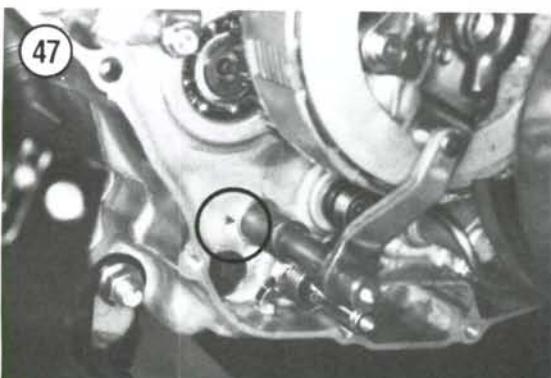
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NOTE

For optimum performance, replace all 3 of these parts if any one of them requires replacement.

5. Inspect the clutch lever (**Figure 44**) for wear or damage, replace as necessary.
6. Inspect the transmission shaft support bearing (**Figure 45**) in the right-hand crankcase cover. It must rotate smoothly with no binding or roughness. If worn or damaged, the bearing must be replaced.

Assembly/Installation

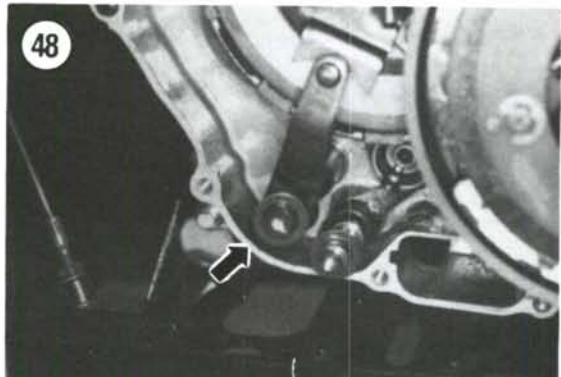
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1. Install the clutch adjust bolt and O-ring into the right-hand crankcase half.
2. Onto the outside of the right-hand crankcase cover, install the washer and the adjusting screw nut (**Figure 41**).
3. Install the clutch lifter cam (**Figure 46**) onto the manual clutch assembly with the notched arm facing down to accept the clutch lifter.
4. Align the index mark on the clutch lever with the raised arrow (**Figure 47**) on the crankcase and install the clutch lever and index it into the clutch lifter cam (A, **Figure 40**).
5. Install the thrust washer (**Figure 48**) onto the clutch lever.
6. Apply a light coat of cold grease to the ball retainer to help keep it in place during the next step.

CAUTION

In Step 7, if the ball retainer is installed incorrectly, the balls in the ball retainer will not come into contact with the grooves in the clutch lifter cam and will not operate correctly.

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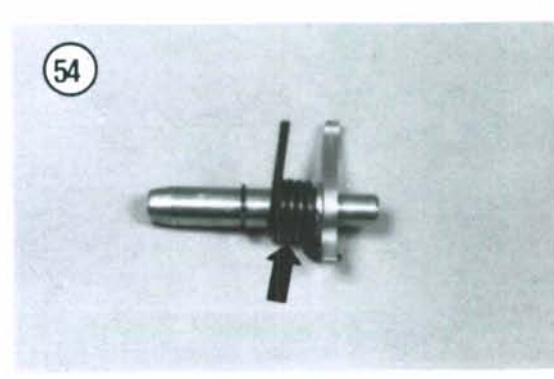
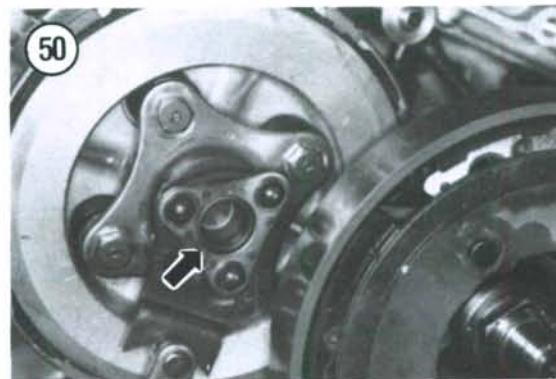
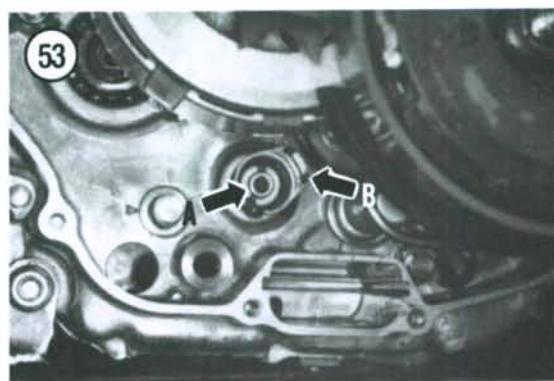
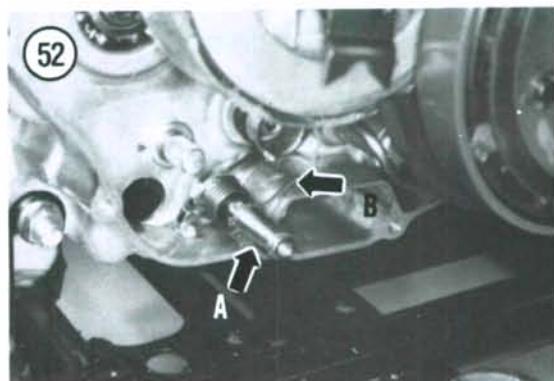
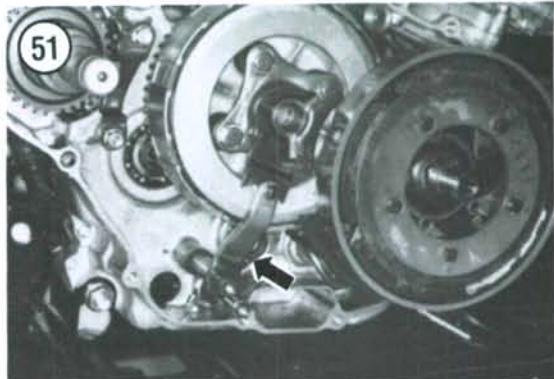


7. Position the ball retainer with the return flange (**Figure 49**) facing toward the clutch lifter cam and install the ball retainer (**Figure 50**).
8. Install the right-hand crankcase cover as described in Chapter Four.
9. Refill the engine with the correct type and quantity oil as described in Chapter Three.
10. Adjust the clutch as described in Chapter Three.

REVERSE LOCK MECHANISM

Removal/Inspection

- Refer to **Figure 39** for this procedure.
1. Remove the right-hand crankcase cover as described in Chapter Four.
 2. Remove the thrust washer and the clutch lever (**Figure 51**).
 3. Remove the reverse shaft arm, spring and thrust washer (A, **Figure 52**).
 4. Remove the bolt (A, **Figure 53**) securing the neutral/reverse rotor.



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